

HISATOMI ET AL. -- 10/082,356
Attorney Docket: 008312-0290742

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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-20. (Cancelled)

21. (New) An information recording/ reproducing apparatus for recording and playback video information, wherein said video information is adapted to an information processing data format that is defined to include (1) video packs of which data is configured by a packet header containing scrambling control information and compressed video data, (2) audio packs of which data is audio information, (3) unit control information (RDI) packs as managing information including copy control information, (4) a video object unit including one unit control information (RDI) pack at the head and including the video packs and audio packs continuing to the unit control information pack, (5) and video object (VOB) including one or more of the video object unit (VOBU), the apparatus comprising:

an encoder including a video encoder, an audio encoder and a formatter, which assembles the video packs, the audio packs and the video object unit;

a controller including a RDI processing section and a packet header processing section, which coordinates content of the copy control information in the video object unit, by detecting a copy control information from the input source, where the RDI processing section changes the content of the copy control information in the RDI pack to the corresponding content with the detected copy control information, and the packet header processing section changes the content of scrambling control information in the headers in the video packs belonging to the video object unit to the corresponding content with the detected copy control information.

22. (New) An apparatus according to claim 21, wherein

the packet header processing section further coordinates the content of the video scrambling control information with the content of the audio scrambling control information of the audio pack.

23. (New) The apparatus according to claim 21, wherein

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the information processing data format defines a sub picture pack having a packer including a packet header having a sub picture scrambling control information and including sub picture data; and

the packet header processing section further coordinates the content of the video scrambling control information with the content of the sub picture scrambling control information of the sub picture pack.

24. (New) The apparatus according to claim 21, wherein
the controller has:

means for making majority decision by determining if the copy control information contained in each of the plurality of unit control information (RDI) packs in a video object authorizes or prohibits copying; and

means for determining the contents of the copy control information for whole of the video object on the basis of the majority decision.

25. (New) The apparatus according to claim 21, wherein
the controller has:

means for detecting if the copy control information contained in each of the plurality of unit control information (RDI) packs in a video object authorizes or prohibits copying; and

means for determining the contents of the copy control information for whole of the video object so as to prohibit copying if copy control information prohibiting copying is detected

26. (New) An information recording/ reproducing method for recording and playback video information, wherein said video information is adapted to an information processing data format that is defined to include (1) video packs of which data is configured by a packet header containing scrambling control information and compressed video data, (2) audio packs of which data is audio information, (3) unit control information (RDI) packs as managing information including copy control information, (4) a video object unit including one unit control information (RDI) pack at the head and including the video packs and audio packs continuing to the unit control information pack, (5) and video object (VOB) including one or more of the video object unit (VOBU), the method comprising:

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assembling the video packs, the audio packs and the video object unit by a video encoder, an audio encoder and a formatter;

coordinating content of the copy control information in the video object unit, by detecting a copy control information from the input source, where the RDI processing section changes the content of the copy control information in the RDI pack to the corresponding content with the detected copy control information, and the packet header processing section changes the content of scrambling control information in the headers in the video packs belonging to the video object unit to the corresponding content with the detected copy control information

27. (New) The method according to claim19, wherein
the method further coordinates the content of the video scrambling control information with the content of the audio scrambling control information of the audio pack.

28. (New) The method according to claim19, wherein the information processing data format defines a sub picture pack having a packet including a packet header having a sub picture scrambling control information and including sub picture data, and
the method further coordinates the content of the video scrambling control information with the content of the sub picture scrambling control information of the sub picture pack.

29. (New) The method according to claim19, wherein
the method further comprises:
making majority decision by determining if the copy control information contained in each of the plurality of unit control information (RDI) packs in a video object authorizes or prohibits copying; and
determining the contents of the copy control information for whole of the video object on the basis of the majority decision.

30. (New) The method according to claim19, wherein
the method further comprises:
detecting if the copy control information contained in each of the plurality of unit control information (RDI) packs in a video object authorizes or prohibits copying; and

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determining the contents of the copy control information for whole of the video object
so as to prohibit copying if copy control information prohibiting copying is detected.